SYSTEM MEMORY REQUIREMENTS (OSC-7)

MARCH 1998

VERSION (1.0)

SYSTEM MEMORY REQUIREMENTS

OVERVIEW

Districts who are experiencing system performance issues should determine if their system has enough RAM to handle the current user load. Adding memory will improve performance if your system is running out of RAM and using the hard drive as a paging space. Your system administrator should run performance analysis utilities to determine the exact cause for system slow downs.

CURRENT SYSTEM MEMORY

To List the Current Memory of the System:

At the system prompt, type:

lscfg -v | grep mem

and press the **Enter** key.

The results of this command will resemble this:

```
mem0                00-0A              8 MB Memory SIMM
mem1                00-0B              8 MB Memory SIMM
mem2                00-0C              8 MB Memory SIMM
mem3                00-0D              8 MB Memory SIMM
```

This example shows a system with 4 8MB SIMMs, for a total of 32MB of RAM.

MINIMUM SYSTEM MEMORY REQUIREMENTS

Basically, the system needs:

- 16MB for the operating system for AIX versions 3.2.5, 4.1.4, and 4.2.1. For AIX version 4.3.x, the system needs 20MB.

- 4MB for each session logged on the system.

- 8MB for the Informix DataBase engine.

- an additional 25% as a buffer.

Mathematically, the basic RAM formula looks like this:

$$((16 + (\#USERS * 4) + 8) * 1.25) = RAM \text{ (in MB)}$$

For example, if your system normally has 7 MUNIS users the calculation would be:

$$((16 + (7 * 4) + 8) * 1.25) = 65 \text{ MB}$$

Since RAM is added in multiples of 4MB increments, this system should have 64MB of RAM.

SYSTEM MEMORY CAPACITY

MODEL 220

These systems have eight (8) SIMM slots which can be populated with 4MB or 8MB SIMMs to a maximum of 64MB. They require 72 pin - PS/2 ECC 70ns SIMMs installed in matched pairs.

MODEL 250

These systems have eight (8) SIMM slots which can be populated with 4MB, 8MB, 16MB, or 32MB SIMMs to a maximum of 256MB. They require 72 pin - PS/2 ECC 70ns SIMMs installed in matching sets of four.

MODEL C-10

These systems have eight (8) SIMM slots which can be populated with 4MB, 8MB, 16MB, or 32MB SIMMs to a maximum of 256MB. They require 72 pin - PS/2 ECC 70ns SIMMs.

MODEL 43P

Earlier model 43Ps are expandable to 192MB using 4MB, 8MB, 16MB, and 32MB SIMMs, installed in matched pairs.

Newer 7043-140 model 43Ps are expandable to 768MB using ECC DIMM memory.

MODEL E-30 & F-30

These systems are expandable to 960MB using 8MB, 16MB, 32MB, 64MB, and 128MB DIMMs. They require 64-bit ECC DIMMs.

MODEL F-40

This model is expandable to 1GB using ECC DIMM memory.